What is Claimed is:

1   1.   A packet based communications protocol comprising:

2   establishment of a first termination point in a first media

3   gateway;

4   establishment of a second termination point in a second media

5   gateway; and

6   exchange of address information directly between the first and

7   second termination points.

1   2.   The protocol of claim 1 wherein the establishment of the first

2   termination point further comprises issuance of a command from a

3   call control server to the first media gateway for information

4   associated with the address of the first termination point.

1   3.   The protocol of claim 2 wherein the establishment of the first

2   termination point further comprises issuance of a response

3   containing the information associated with the address of the first

4   termination point from the first media gateway to the call control

5   server.

1 4. The protocol of claim 3 wherein the establishment of a second

2 termination point further comprises transfer of the information

3 associated with the address of the first termination point from the

4 call control server to a second call control server.

1 5. The protocol of claim 4 wherein the establishment of a second

2 termination point further comprises selection of the second media

3 gateway by the second call control server.

6. The protocol of claim 5 wherein the establishment of a second

2 termination point further comprises issuance of a command from the

3 second call control server for the second media gateway to send

4 information associated with the address of the second termination

5 point directly to the first termination point.

1 7. The protocol of claim 6 wherein the exchange of address

2 information directly between the first and second termination points

3 further comprises issuance of a message from the second media

4 gateway to the first termination point containing information

5 associated with the address of the second termination point.

1   8.   The protocol of claim 7 wherein the exchange of address

2   information directly between the first and second termination points

3   further comprises issuance of a response from the first media

4   gateway confirming the message from the second media gateway.

9.   The protocol of claim 8 wherein the issuance of a command from

a call control server to the first media gateway for information

associated with the address of the first termination point further

comprises the issuance of an ADD message.

10.   The protocol of claim 8 wherein the issuance of a response

containing the information associated with the address of the first

termination point from the first media gateway to the call control

4   server further comprises the issuance of an ACCEPT message.

1   11.   The protocol of claim 8 wherein the transfer of the information

2   associated with the address of the first termination point from the

3   call control server to a second call control server further

4   comprises communication via ISUP.

1   12.   The protocol of claim 8 wherein the issuance of a command from

2   the second call control server for the second media gateway to send

3   information associated with the address of the second termination

4   point directly to the first termination point further comprises the

5   issuance of an ADD message.

1   13.   A method of providing direct, per-call information exchange

2   between two distinct media gateways, comprising the steps of:

3   establishing of a first termination point in a first media

4   gateway;

5   transferring address information for the first termination

6   point to a second media gateway;

7   establishing of a second termination point in the second media

8   gateway; and

9   using the address information to establish direct communication

10   between the first and second termination points.

1   14.   The method of claim 13 wherein establishing the first

2   termination point further comprises issuing a command from a call

3   control server to the first media gateway for information associated

4   with the address of the first termination point.

1   15.   The method of claim 14 wherein establishing the first

2   termination point further comprises issuing a response containing

3   the information associated with the address of the first termination

4   point from the first media gateway to the call control server.

1 16. The method of claim 15 wherein transferring address information

2 for the first termination point to a second media gateway further

3 comprises transferring the information associated with the address

4 of the first termination point from the call control server to a

5 second call control server.

1 17. The method of claim 16 wherein establishing of a second

2 termination point further comprises selecting the second media

3 gateway by the second call control server.

1 18. The method of claim 17 wherein establishing a second

2 termination point further comprises issuing a command from the

3 second call control server for the second media gateway to send

4 information associated with the address of the second termination

5 point directly to the first termination point.

1 19. The method of claim 18 wherein the using the address

2 information to establish direct communication between the first and

3 second termination points further comprises issuing a message from

4 the second media gateway to the first termination point containing

5 information associated with the address of the second termination

6 point.

1 20. A wireless communications system comprising:

2 an Internet Protocol based core network;

3 a first access network;

4 a second access network;

5 a first gateway in the core network, communicatively associated

6 with the first access network;

7 a second gateway in the core network, communicatively

8 associated with the second access network;

9 wherein the first and second gateways are adapted to directly

10 exchange address information on a per-call basis.